

Project Profile

Project: Clear Creek Levee Improvement
Location: Big Sandy Lake/North of Ashland, Nebraska
Owner: Lower Platte North Natural Resources District
Engineer: USACE Omaha District

Contractor: Harding Enterprises
Installed: April 2015-June 2015
Product Used: Flexamat
[Click Here for Case Study](#)



One example of the eroded, near vertical banks.



Product Benefit:

A presentation on Flexamat, a tied concrete block erosion mat, was completed for the United States Army Corp of Engineers (USACE) and follow-up discussions lead to it being proposed in lieu of large rock riprap for the lakeside face of the levee. With design assistance from the product's manufacturer, the USACE specified approximately 141,000 sq. ft. of Flexamat as one of two proposed articulating concrete mat bid items. A separate layer of an 11oz. non-woven filter fabric was called out for to control potential migration of the underlying sandy soils. The USACE also decided on covering/infilling the mat with soil and a single-net straw erosion control mat assuring a rapid and aesthetically pleasant "greening-up" of the site.



Flexamat in the anchor trench and ready to be deployed into the water.



Conclusion:

After securing the material order, Flexamat, TC Mirafi 1100N and North American Green's S75 were supplied. The site ended up needing 160,000 sq. ft. of concrete mats covering over 1 mile of shoreline and has fully stabilized and vegetated as of late summer 2015. The armored, green and aesthetically pleasing levee is ready for anything the lake can throw at it, boats and skiers included!

Project Scope:

The 11 mile long levee protects a large area of farmland and residences in the Platte & Elkhorn Rivers' flood plain. Due to wind and wave action on Big Sandy Lake a mile long section of the levee had developed serious erosion issues leaving nearly vertical eroded banks with some areas exceeding 20' in height. The levee cross section needed to be stabilized to prevent further degradation and its possible failure.

Employee Profile



Meet John Warren

Branch: Kansas City, MO **Office Phone:** 816-590-8657

John Warren joined ASP Enterprises in October of 1994 as the first "Branch Office" in the Kansas City area. He was previously employed as a Territory Manager for the American Excelsior Co. for 4 years and had extensive experience in the Landscape Construction and Design industry in MO, KS, OK, MD, VA and Washington D.C. He is a graduate of the University of Missouri – Columbia with a degree in Horticulture. Currently in his 21st year as the Branch Manager he serves on various business related Boards and Committees including the Great Rivers Chapter of the International Erosion Control Association as the Treasurer as well as the Engineers Club of Kansas City, The Kansas City Chapters of the APWA, ASCE, KSPE, MSPE and the EWRI as well as the Missouri Representative for the CPESC program. John has 3 almost grown kids, Dane, Kellen and Lily who is a 2nd year student at the KC Art Institute, John enjoys cycling, hiking, lake activities and many charitable causes including the Leukemia & Lymphoma Society where he acts as a Mentor, Coach and participant in various endurance events including his 8th consecutive 100 mile ride around Lake Tahoe in June 2016. John is proud to be a Prostate Cancer survivor and encourages everyone to be vigilant with early health screenings as well a healthy lifestyle. John is always available to help his customers find innovative and cost conscious solutions to their most trying environmental projects, give him a call to schedule a site or office visit today.

Event Calendar

January 10-12
Iowa LICA Membership Meeting
and Convention
[Click Here>](#)

Jan. 19-21, 2016
57th Annual NLICA Winter Convention
[Click Here>](#)

February 16-19
EC16 IECA Environmental
Connection Conference
[Click Here>](#)

March 8
Great Plains LID Design
Competition and Symposium
[Click Here>](#)

April 5-8
ASP Quick Supply Clean
and Green Conference
[Click Here>](#)